

INTERNATIONAL SEARCH REPORT

International application No.
PCT/SE 03/00856

A. CLASSIFICATION OF SUBJECT MATTER

C07D 209/30, 403/12, 417/12, 413/12, A61K 31/405, 31/41,78, 31/4196,
IPC7 31/422,31/4709,31/427, A61P 11/06,11/00,29/00
According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: C07D, A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPO-INTERNAL, WPI DATA, CHEM.ABS DATA, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	STN International, File CAPLUS, CAPLUS accession no. 1977:535057, Document no. 87:135057, Sankyo Co., Ltd.: "3-Indolyl thio ethers"; & JP,A2,52039671, 19770328, RN 64137-76-4, 54491-43-9, 56366-45-1	10
X	STN International, File CAPLUS, CAPLUS accession no. 2001:338492, Document no. 134:353315, Wakunaga Pharmaceutical Co., Ltd.: "Preparation of indole derivatives as chymase inhibitors and drugs containing the same as the active ingredient"; & WO,A1,2001032621, 20010510, RN 64137-76-4, 336186-33-5	10

☒ Further documents are listed in the continuation of Box C. ☒ See patent family annex.

* Special categories of cited documents	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"E" earlier application or patent but published on or after the international filing date	"Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&" document member of the same patent family
"O" document referring to an oral disclosure, use, exhibition or other means	
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search

29 August 2003

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Date of mailing of the international search report

02 -09- 2003

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	Tetrahedron Letters, Vol. 26, no. 15, 1985, Josefina Garcia et al: "A novel synthesis of 3-cyanoindoles and a new route to indole-3-carboxylic acid derivatives ¹ ", page 1827 - page 1830, RN 98508-73-7, page 1828, no. 7,1,5	10
A	--	1-5
X	STN International, File CAPLUS, CAPLUS accession no. 1988:549279, Document no. 109:149279, Atkinson, Joseph G. et al: "A new synthesis of 3-arylthioindoles"; & Synthesis (1988), (6), 480-1	10
X	J. Org. Chem., Vol. 66, no. 7, 2001, Masato Matsugi et al: "Facile and Efficient Sulfenylation Method Using Quinone Mono-O,S-Acetals under Mild Conditions", page 2434 - page 2441, page 2436, table 4, 11a, b, c, e, f	10
X	Tetrahedron Letters, Vol. 42, no. 6, 2001, Masato Matsugi et al: "An efficient sulfenylation of aromatics using highly active quinone mono O,S-acetal bearing a pentafluorophenylthio group", page 1077 - page 1080, page 1079, 3k, 3o, 3p	10
X	Tetrahedron Letters, Vol. 42, no. 31, 2001, Ulrike Hary et al: "Efficient synthesis of 3-(4,5-dihydro-1H-imidazole-2-yl)-1H-indoles", page 5187 - page 5189, RN 227803-35-2	10
X	J. Org. Chem., Vol. 61, no. 5, 1996, Pierre Hamel et al: "Regioselective Synthesis of Mixed Indole 2,3-Bis(sulfides). A Study of the Mechanism of the Second sulfenylation of Indole", page 1573 - page 1577, 3a, 3c	10

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0530907 A1 (MERCK & CO. INC.), 10 March 1993 (10.03.93), RN 56366-45-1, 148900-60-1 --	10
X	WO 9516687 A1 (ABBOTT LABORATORIES), 22 June 1995 (22.06.95), RN 32884-74-5, page 35, no. 44 --	10
X	WO 9419321 A1 (MERCK & CO., INC.), 1 Sept 1994 (01.09.94), RN 148900-60-1, 56366-45-1, page 19, line 1 - line 10, page 40, XV, Table I, Table IV-A, Table VII --	10
X	EP 0576347 A1 (ELF SANOFI), 29 December 1993 (29.12.93), RN 156233-81-7 --	10
A	EP 1170594 A2 (PFIZER PRODUCTS INC.), 9 January 2002 (09.01.02), page 22, line 6 - line 21; page 34, figure 10B(C) --	1-11
A	GB 1356834 A (IMPERIAL CHEMICAL INDUSTRIES LIMITED), 19 June 1974 (19.06.74) --	1-11
A	STN International, File CHEMCATS, CHEMCATS accession no. 2000:1027702, 26 April 2001, 8004-3013, 1H-Indole-1-acetic acid, 2-methyl-3-(phenylthio)-, ethyl ester ⁿ , CAS Registry No. 300860-50-8 --	1-5
A	STN International, File CAPLUS, CAPLUS accession no. 1983:488557, Document no. 99:88557, Luescher, Immanuel F. et al: "Deblocking of o-nitrophenylsulfenyl-protected peptides by ammonium thiocyanate and (2-methyl-2-indolyl)acetic acid"; Helv. Chim. Acta (1983), 66(2), 602-5 -- -----	1-5

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Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.: 7, 8
because they relate to subject matter not required to be searched by this Authority, namely:
see next page
2. ☒ Claims Nos.: 9, 10
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
Formula (II) in claim 9 cannot be correct because "S" is missing between "R3" and the ring. Therefore, the search on claims 9 and 10 is based on formula (II) in the description page 7, line 1-line 4.
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
☐ No protest accompanied the payment of additional search fees.

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Claims 7,8 relate to methods of treatment of the human or animal body by surgery or by therapy/diagnostic methods practised on the human or animal body/Rule. 39.1(iv). Nevertheless, a search has been executed for these claims. The search has been based on the alleged effects of the compound/composition

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Information on patent family members

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
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		WO 9305020 A	18/03/93
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			ZA	7207007 A	27/06/73
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